CLIMATOLOGICAL DATA FOR NOVEMBER, 1912.

DISTRICT NO. 10, GREAT BASIN.

ALFRED H. THIESSEN, District Editor.

GENERAL SUMMARY.

No unusual meteorological features occurred in the Great Basin during November, 1912, the month being nearly average in all respects. It was favorable for farm work, but owing to the muddy condition of the soil a small acreage of sugar beets in Utah still remained in the ground. Fall plowing was prosecuted vigorously in all dry-farming sections, and in many places fall sowing of grain was done. Range grass was reported in good condition, and stock had not suffered from inclement weather or lack of food or water.

The temperature for November averaged somewhat above normal, being in marked contrast to the two previous fall months, which were colder than normal. This month was also much warmer than November of last year, which, it will be remembered, was one of the coldest

on record.

The temperatures throughout the month were unusually uniform, there being no very cold or very warm spells. The cooler portions of the month were from the 1st to the 9th and from the 20th to the 27th. The warmest portion of the month extended from the 7th to the 11th.

Precipitation for the district averaged slightly below normal. The rainfall of October was much above normal; while that of September was about normal. During November the precipitation occurred for the most part during the first half of the month, due to a succession of storms which passed over the Northwest during that period in rapid succession. Other rainy dates were the 19th, 20th, and 30th.

The average number of rainy days was 4, clear days

16, partly cloudy days 7, and cloudy days 7.

TEMPERATURE.

The mean temperature for the Great Basin was 38.5°, which is 1.1° above normal. There was a very general excess of temperature in the Oregon and Nevada areas; while in the Utah, Idaho, and Wyoming areas, there was less uniformity of the local mean temperatures in reference to the normals. The greatest positive departure was 7.9° at Carson Dam, Nev.; while the greatest negative departure was 2.2° at Thistle, Utah. The local mean temperatures ranged from 49.3° at Jean, Nev., to 29.0° at Cokeville, Wyo.

The following were the highest temperatures that occurred in the various areas of the several States of this district: 60° at Border, Wyo., on the 9th; 63° at Weston, Idaho, on the 9th; 75° at Fillmore, Utah, on the 9th; 66° at Silver Lake, Oreg., on the 13th; 62° at Tahoe, Cal.,

on the 25th; and 75° at Jean, Nev., on the 1st.

The lowest temperatures were: 2° at Cokeville, Wyo., on the 27th; 15° at Weston, Idaho, on the 29th; 4° at

Meadowville, Utah, on the 1st; 5° at Cliff, Oreg., on the 24th; 10° at Truckee, Cal., on the 21st; and 3° at Tecoma, Nev., on the 23d.

Precipitation averaged only 0.89 inch, which is 0.15 inch below normal. The largest amounts fell in the Utah, Idaho, Wyoming, and Oregon areas; while the lessor amounts occurred in Nevada. While the general average was below normal, there were some exceptions as in the extreme northern portion of the Utah area and in the Idaho area, where most stations reported monthly amounts above normal. The largest local monthly amount, 3.55 inches, fell at Clarkston, Utah. Almost equally large amounts fell at Tahoe, Cal., and Lewers Ranch, Nev., but these were below normal, while that at Clarkston was probably more than double the normal amount at that station.

In the Utah area snow was quite general in all regions, though on the desert districts of the middle and northern portion of this area the snowfall was unimportant. In the mountains of the central and northern counties, snow

fell to a depth of 3 feet in the passes.

In the California and Nevada areas light snow fell at the 5,000-foot level, but larger amounts were reported at greater elevations, being about 8 inches at 6,000 feet and as much as 20 inches at 8,000 feet. The heaviest snowfall reported was 27.5 inches at Deer Park, Cal., at an elevation of 6,500 feet. Considerably more snow was reported at high levels during September, October, and November, 1912, than during the same months of either 1910 or 1911.

The average snowfall for stations in the Carson, Humboldt, Truckee, and Walker drainage basins, for the three months, September, October, and November, for the years 1910, 1911, and 1912, are shown in the following table. Three stations were used for the Carson, three for the Humboldt, eight for the Truckee, and three for the Walker Basin. No more stations with complete records are available for the purpose.

| Drainage basin. | in inche 3 month | mounts of s and tentl s, Septemi Novembe | ns, for thé per. Octo- |
|---|---------------------------|---|----------------------------|
| | 1910 | 1911 | 1912 |
| Carson Humboldt Truckee Walker | 0.0 2.6 11.3 5.0 | 6.2 8.0 13.0 8.7 | 8.0 13.1 18.2 9.7 |

This table shows that considerably more snow occurred during September, October, and November, 1912, than during the same months of the two preceding years. It seems to be the generally accepted opinion that there is not as much run-off from an early snow as from a late one, but in spite of this fact the early heavy snows this season will help out last year's deficiency in these watersheds to a great extent. It will require heavy snow later in the season to bring Lake Tahoe up to the desired level.

DAILY RANGES OF TEMPERATURE IN NEVADA.

By HARVEY S. COLE, Section Director.

In the Climatology of the United States, Prof. Henry says that the mean daily range of temperature is greatest in the Plateau region and least along the Pacific and Gulf coasts. Nevada, due to its geographic position, is an extreme type of country having a large range of temperature. It is situated east of a high mountain range and in addition has a considerable elevation. These facts account for the relatively high afternoon temperatures, and at the same time the rare and clear air permit rapid radiation at night with accompanying low temperatures.

The following instances of great ranges in temperature will emphasize this fact. A daily range of temperature of 75° occurred at Carlin August 24, 1910, and 72° on July 6 of the same year was reported at the same place. There is scarcely a season that a daily range of over 60° is not reported at that station. Quinn River Ranch scarcely ever fails to report a range of 55° or more during a season and has reported 60° on several different occasions. Ranges of 50° or more are expected over the eastern and nothern portions of the State. The highest temperature ever recorded in the State is 120° at Cobre, in August, 1893; the lowest —39° at Beowawe, January 8, 1890; an absolute range of 159° for the State.

For this study the mean daily ranges for the different months of the year were charted for 20 stations. The stations were not as well distributed as could be desired, as in some portions of the State no record for a number of years is available, but it is thought the ones chosen will answer very well. A chart of the average daily ranges for

the year was also prepared.

The mean daily ranges for charts were obtained by subtracting the mean maximum temperature from the mean minimum temperature for each month in the year. The mean maximum and minimum temperatures used were for the different periods obtainable, varying in length,

but none for less than five years.

These daily ranges were charted and lines drawn for each 5°. The lines are so irregular that the exposures of the instruments are evidently not uniform; but there is a general increase in range from Tonopah outward, the increase being decided to the northwest and to the northeast, east, southeast, and south, but small to the north and west.

The three Weather Bureau stations, Reno, Winnemucca, and Tonopah, show decidedly lower ranges than surrounding stations, the annual ranges being 28°, 28°, and 19°, respectively. This, of course, is because of the elevation of the instruments above the ground, in free air, where the effects of radiation and insulation are not so great as at the surface.

The record at Austin shows an average daily range for the year of 23°, much less than at surrounding stations, because the location is in a long narrow valley trending north and south, between high mountain ranges which cut off the amount of sunshine both morning and evening. Its elevation is 6,594 feet, which, other things equal,

would give it a larger range.

Records at Lovelocks and Quinn River Ranch show a range of 34° each, considerably larger than the stations in the western portion of the State, which average 28°. The elevation at Lovelocks is 3,977 feet and at Quinn River Ranch it is 4,850 feet, somewhat lower than the other stations in the western portion. This increase in range is due to the great radiation over the Black Rock Desert, the air over the desert being so clear and dry that insolation and radiation are very effective.

The greatest average daily ranges for the year in the State are at Carlin and Geyser, which are 42° and 40°, respectively. Both stations are in the eastern portion of the State. Carlin has an elevation of 5,232 feet and Geyser 6,055 feet. The instruments at both stations are in shelters, over uncultivated ground, in a broad valley, the surface sloping gently to the southward. They are also in a portion of the State where the number of clear days is unusually large, allowing a great amount of inso-

lation and radiation.

The annual variation of the daily range over the State is very noticeable, the average for February at Tonopah being 11° and increasing rapidly in each direction except to the north and west. In the northwestern and eastern portions of the State the midwinter average is 25° to 33°, the latter occurring at Geyser. These ranges increase gradually from midwinter to midsummer, when they exceed 40° in the northwestern portion and in the eastern half of the State. They exceed 44° at several stations in August, and reach 57° at Carlin. The large range at Carlin is due to the shelter being over uncultivated ground, the gentle slope to the south, the elevation leaving the denser portion of the air below, and to its location east of the Sierra, resulting in dry air and cloudless skies.

By the courtesy of Profs. Church and Ferguson I have

obtained average daily ranges on Mount Rose for the midsummer and midwinter months, which are 9° and 22°, respectively. The station is on the highest point of the mountain, at an elevation of 10,800 feet. The midwinter range at Lewers Ranch, about 6 miles distant from Mount Rose and at an elevation of 5,200 feet, is 21°, and the midsummer range is 36°. The difference in range is accounted for by the fact that Mount Rose is a sharp peak projecting into the air, and the temperature readings are as near freeair readings as can be obtained except by kite observations.

The range retreats from midsummer to midwinter as consistently as it advanced. It is interesting to notice how consistently the lines of greater range appear on the outer edges of the State, and the lines of least range disappear at Tonopah as the season advances, month by month, from February to August, and how consistently the lines of least range appear at Tonopah and the lines of greatest range disappear on the outer edge from August to February.

The least difference between midsummer and midwinter ranges is 7° at Fernly and 28° at Carlin. This difference between summer and winter ranges is comparatively small in the western and southern portions of the

State, while it is large in the northern portions.

Table 1.—Climatological data for November, 1912. District No. 10, Great Basin.

| | | | years | Tem | peratur | e, in (| degr | ees Fal | rent | neit. | Prec | eipitation | ı, in in | | days, | | Sky. | | direc- | |
|-------------------------|--|----------------------------|-------------------------|----------------------|---|-----------------|-----------------------|--------------|---------------|-----------------------|--|-------------------------------|--------------------------|---------------------------------------|------------------------------------|--------------------------|------------------------------------|---------------------------|------------------|--|
| Stations. | Counties. | Elevation, feet. | Length of record, years | Меап. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelted. | Number of rainy 0.01 inch or mo | Number of clear days. | Number of part- ly cloudy days. | Number of cloudy days. | Prevailing wind | Observers. |
| Wyoming. | , | | | | | | | | | | | | | | | | | | | |
| kevillevanston | do | 6,085 6,204 6,860 | 10 2 16 | 30.0 29.0 32.2 | +0.8 | 60 •53 59 | 9 8 9 | 3 *2 8 | 27 27 1 | 36 *38 34 | 0.07 0.67 0.74 | -0.83 -0.13 | 0.04 0.19 0.21 | 0.5 8.0 4.0 | 6 6 | 17 23 20 | 6 •1 5 | 7 *5 5 | w. nw. sw. | S. W. Condron. E. J. Tuckett. Frank Tucker. |
| Idaho. | | , , | | | | | | | | | | | | | | - | | | | 1 |
| леva | Bannock | 6,171 5,400 | 4 5 | | - | | | | | | 1.35 | | 0.71 | 8.2 | 5 | 22 | 6 | | | F. W. Boehme. G. K. Miller. |
| riseston | Bear Lake Oneida | 5,946 4,460 | 17 14 | 36.6 | +0.2 | 63 | 9 | 15 | 27 | 34 | 1.85 | +0.45 | 0.45 | <u>ö</u> . | 9 | 17 | 5 | 8 | n. | John Norton. Wm. T. Chatterton. |
| Utah. | | | | | | | | ĺ | | | | | 1 | | | | | | | |
| pineaver | Beaver | 4,900 6,000 | 13 8 | 33.8 | . | 66 | †8 9 | 6 | 30 | 50 | 0.96 0.57 | -0.58 | 0.26 | т. | 5 3 | 17 14 | $\frac{6}{12}$ | 4 | nw. | T. F. Carlisle. M. J. Shelton. |
| ck Rockrville | Millard | 4,872 6,800 | 8 | 38.5 35.1 | . | | 9 | 12 10 | 29 22 | 46 43 | 0.26 1.45 | | 0.14 | | 2 | 17 | 10 | 3 | | W. D. Livingston. |
| tle Rocklar City | Summit | 6,244 | 7 | •43.8 | | 66 | †9 | 18 | 21 | 38 | 0.98 | | $0.20 \\ 0.38$ | 7.5 | 8 | 14 24 | 7 | 9 | | David Moore. |
| iter | Tooele | 4,250 | ļ | °35.6 | • | 63 | 18 | f10 | 28 | 138 | 0.59 | | 0.50 | 5.0 | 3 | 20 | 2 | 8 | S. | L.C. Peterson. |
| rkstoninne | Boxelder | 4, 240 | 42 | 38.0 | +0.6 | 66 | 11 | 17 | 30 | 32 | 1.45 | +0.41 | 0.70 1.15 | 0.5 | 7 3 | 12 11 | 8 | 11 | | W. J. Griffiths. A. C. Murphy. |
| ereterta | Utah | 4,541 4,650 | 17 10 | 39. 2 | | 69 | 9 | 18 | 27 | 31 | 0.65 | | 0.26 | · · · · · · · · · · · · · · · · · · · | 4 | 19 | 3 | 8 | | S. W. Western. D. C. Walkey. |
| tornrigo | Washington | 5 750 | 6 | | | | | | | | 0.75 | | 0.31 | 6.5 | 5 | | | | 1 | John Day. N. W. Erekson. |
| mington | Tooele Davis Millard Boxelder Millard | 4, 267 5, 100 | 11 20 | 39.8 41.9 | $-0.8 \\ -0.2$ | 64 75 | 9 | 20 | †26 | 35 38 | 1.30 1.40 | -0.32 | 0.60 | 2.0 | 4 | 23 | 3 | 4 | n. | Charles Boylin. |
| rland | Boxelder | 5,100 | | ₹36.6 | -0.2 | 54 | 17 | 20 18 | †21 30 | 28 | 1.95 | +0.40 | 0.52 | 3.0 | 8 | ·· | 15 | 7 | s. | J. J. Starley. Heber C. Cutier. |
| Trison | Millard | 4,850 5,277 | 9 11 | 23.6 ma42.3 | -0.4 | 70 64 | 9 | 12 15 | 27 21 | 50 38 | $0.37 \\ 0.86$ | -0.29 | $0.27 \\ 0.26$ | 4.5 | 2 4 | 14 | 6 | 10 | s. | E. M. Smith. Walter James. |
| nger | Tooele | 4, 560 4, 220 | <u>i</u> . | 440. S | | 68 | 9 | 23 | 26 | 28 | 1.00 | | 0.50 | | 2 | | | | 4 | Geo. E. Greene. J. C. Woodmansee. |
| use Creek | Boxelder | 5,148 5,593 | 19 | | . | | | | | 40 | 0.80 1.00 | | 0.45 | 1.5 | 3 | 14 | 7 | 9 | sw. | Phillip Paskett. |
| ber nefer | | 5, 301 | 12 | 35.9 36.0 | $+0.6 \\ +0.6$ | 65 67 | 9 | 10 | 27 27 | 40 46 | 1.00 | -0.70 | 0.25 | 5.0 1.5 | 6 7 | 18 18 | 5 4 | 8 | nw, | John Crook. William Brewer. |
| oper nah (near) | Tooele | 4, 436 7, 500 | 8 | | - • • - • - • | | | | | | 0.30 | | 0.20 | | 2 | | | | | T. M. Jones jr. J. S. Lawton. |
| X | Summit. Weber Tooele. Millard. Tooele. Juab Piute. Millard. Boxelderdo. Juab. Cache. Tooele. | 5, 250 4, 356 | 1 1 | 39.9 | - | 70 | i0 | 17 | 27 | 36 | 0.80 | | 0.30 | | 3 | 12 | 11 | 7 | n, | John J. Watson. Geo. K. Hubbell. |
| .pa | Juab | 5,000 6,000 | | | - | | | | | | | | | - | 2 | 22 | 6 | | . | A. M. Laird. |
| nosh | Millard | 5, 250 | 2 | | | | :- | | | | 1.83 | | 0.27 | | 4 | | | 2 | S. | Joseph Jensen. Geo. Crane. |
| ton nav | Boxelder | 4, 230 4, 221 | 32 | 33.3 39.4 | -1.1 | 55 52 65 | 9 9 | 26 | †27 †29 | 35 17 | 0.57 | +0.20 | 0.40 | | 2 1 | 5 21 | 19 5 | 6 | SW. | F. W. Klock. Agent S. P. Co. |
| van | Juab | 5, 010 4, 507 | 22 21 | 36.8 37.7 | $-0.2 \\ -0.2$ | 65 65 | 9 | 16 22 | 1 26 | 32 23 | 1.44 2.40 | +0.48 +1.17 | $0.75 \\ 0.64$ | 3.1 | 8 | 20 | 2 | 8 | sw. | William Brown. Utah Exp. Station. |
| | | 4,602 | 5 | 42.0 | . | 70 | †9 | 22 | †26 | 35 | 0.00 | | 0.00 | | 0 | 16 | 9 | 5 | | Utah Exp. Station, Agent W. P. Ry. Co. C. C. Herrington. |
| ind | Iron | 4, 504 5, 086 | 3 | | | | | | | | 12122 | | | | | | | | | Job F. Hall. |
| nti ple Creek | Utah | 5, 086 5, 575 4, 850 | 17 | 38.6 | +1.3 | 69 | 9 | 18 | 26 | 39 | 0.94 1.66 | -0.02 | $0.31 \\ 0.81$ | | 6 5 | 16 19 | 2 2 | $\frac{12}{9}$ | · · • · · · · | J. M. Anderson. Lewis W. Gillilan. |
| rionrysvale | Summit | 6, 400 6, 076 | 7 12 | 37.2 | 0.0 | 69 | †1 | 11 | +26 | 54 | $\begin{bmatrix} 1.27 \\ 0.48 \end{bmatrix}$ | -0.44 | 0.33 | $\frac{6.0}{0.8}$ | 9 | 13 13 | 8 | 8 9 | nw: n. | Jas. Woolstenhulme. John W. Henry. |
| adowville | Rich Boxelder | 6, 200 4, 235 | 11 | 33.2 42.4 | -0.6 | 63 56 | 9 10 | 4 33 | 1 30 | 29 12 | 0.85 | -0.45 | 0.40 | 1.0 | 4 0 | | 1 6 | 10 6 | | J. S. Moffat. Agent S. P. Co. |
| lvale | Salt Lake | 4, 365 | | 40.4 | · · · · · · · · | 70 | 9 | 20 | †25 | 31 | 1.28 | | 0.31 | | 7 | 14 | 7 | 9 | s. | M. J. Joy. |
| fordls | Juab | 4, 962 | 4 | | | | | | | | 0.53 | | 0.29 | | 3 | | | | · · · · · · · · | Agent Salt Lake Route Geo. McCune. |
| lville nersville | CacheBeaver | 4,848 5,070 | 17 | | | | | | | | 2.85 0.38 | +1.20 | $0.48 \\ 0.12$ | | 8 5 | 10 18 | 17 9 | 3 | n, sw. | Fred Yeates. Geo. Roberts, sr. |
| dena | Iron | 5, 479 5, 068 | 11 | 38.3 38.1 | -0.7 | 64 70 | 8 8 | 16 13 | 22 27 | 40) 40) | $0.29 \\ 1.34$ | -0.31 | 0.28 0.56 | T. 2.0 | 5 3 6 | 25 | 2 | 3 | w. | U. S. Weather Bureau E. C. Kingston. |
| roni | MorganSanpeteUtah | 5,519 | 4 | *38.6 | . | 66 | 9 | 18 | 21 | 33 | 0.98 | | 0.46 | 0.5 | 7 | 18 | 4 | 8 | | B. F. Eliason. |
| sida phi (near) | Juan | 4, 510 5, 119 | 7 | | | | | | | | | | | | | | | | | R. F. Curtis. S. Boswell. |
| weastlek City | Iron | 5, 150 4, 900 | 1 5 | | . | | | | | | 0.52 | | 0.37 | | | | :::: | | | T. W. Jones. Peter Nielson. |
| den | Weber | 4, 900 4, 310 6, 560 | 41 | 39.7 34.7 | +0.3 | 67 64 | 8 9 | 16 9 | 30 †23 | 30 49 | 0.91 0.22 | -0.23 | $0.26 \\ 0.12$ | 2.0 | 6 | 19 418 | 2 d1 | 9 d7 | S. | A. Van DeGraff. John N. Henrie. |
| k City | Summit | 7, 800 5, 200 | 7 | 36.2 | - | 69 | 16 | 5 | 22 | 57 | | | 0.09 | 1.7 2.5 | 3 3 | 8 12 | 17 11 | 5 7 | nw. | Gertrude Evans. A. O. Evans. |
| k Valleyowan | Boxelder | 5,970 | 21 | 40.8 | +1.8 | 68 | 10 | 18 | | 40 | 1.12 | +0.43 | 0.50 | 2 | 4 | | | | | Alex. Matheson. |
| vson ican Point | Utah | 4,637 4,600 | 8 1 | - • • • • · · | | | • • • • | | | | 1.42 | - · · · · · · · · · · | 0.60 | | | 18 | 7 | | ne. | D. L. Coombs. B. M. Mendenhall. |
| e Cliff Ranch | Summit | 8, 250 5, 907 | 1 14 | •38.7 | +2.3 | 63 | io | 19 | †17 | 36 | 0.73 | -0.59 | 0.52 | | 3 | •20 | •1 | •6 | n, | L. E. Leavitt. J. H. Harrison. |
| ntifulomontory | Tooele | 4, 220 4, 913 | 33 | | | | | | | | 0.51 0.40 | | 0.22 0.40 | 4.0 | 3 | | | | | C. L. Drumm. F. C. Houghton. |
| vo | Utah | 4,532 | 23 | 38.2 | -1.6 | 72 | 9 | 16 | 26† | 4 0 | 1.18 | +0.04 | 0.88 | | 3 | 20 | 4 | 6 | n, | James A. Oliver. |
| dolph | Rich | 6,442 5,066 | 10 | -00.5 | | | | | | | 0.70 | | 0.24 | | 5 | | | | | Wm. Rex. E. L. Terry. |
| hfield hmond | Sevier | 5,350 4,529 | 18 | ≤38.5 | +0.9 | 69 | 9 | 12 | 24 | 39 | T. 2.90 | -0.42 | T. 0.94 | T. 4.5 | 0 8 | 10 | 5 | 15 | | Joseph J. Jensen. J. R. Thompson. |
| air Lake City | Salt Lakedo | 4, 220 4, 360 | 8 38 | 39.9 42.8 | +2.4 | 64 70 | 10 9 | 26 26 | †27 27 | 21 26 | $1.12 \\ 1.70$ | +0.28 | 0.34 0.66 | 2.5 | 7 8 | 14 | 7 | <u>.</u> . | se. | E. J. Bench. U. S. Weather Bureau. |
| pio | Millard | 5,260 | 17 | 40.4 | +3.2 | 74 59 | 10 | 11 | 31 | 49 | 1.25 | +0.01 | 0.35 | · • · · · · / | 6 | 12 16 | 7 12 | 11 2 | sw. | Thos. Memmott. |
| well er City | Boxelder | 4,650 6,127 | 2 | 35.8 | | | | 11 | 127 | 36 | 0.93 | | 0.30 | | | | 12 | | | Richard Ilgner. J. L. Stark. |
| yths mish Fork | Beaver | 4,585 | 2 | 39.8 | . | 73 | 8 | 18 | 26 | 34 | $0.37 \\ 1.52$ | | 0.30 0.79 | 2.2 | 3 4 | 17 | 4 | | | V. Waddoups. U. S. Reclamation Serv |
| awberry Tunnel (w.) | | 7,650 5,075 | 6 18 | 33.1 35.0 | -2.2 | 73 57 63 | 8 8 8 | 11 | †12 †26 | 38 44 | 2.59 1.80 | +0.80 | 1.13 1.10 | 25.0 3.0 | 6 4 | 22 11 | 8 | 6 11 | nw. | Do. John Thorgierson. |
| oele | Tooele | 4,900 | 16 | 40.4 | +0.5 | 67 | 9 | 23 | 27 | 32 | 1.68 | +0.15 | 0.58 | | 5 | 9 | 10 | ii | e. | E. A. Bonelli. |
| sh Lake Pumping tation. | Utah | 4,500 | 7 | | | | •••• | ••••• | | | | | | | | 10 | ```` | | ••••• | W. A. Knight. |
| non ndover | Tooeledo | 5,500 4,237 | ··i | 42.2 | . | 68 | 9 | 21 | 124 | 33 | 0.87 T. | | 0.47 T. | 2.2 T. | 5 0 | 18 6 | 8 24 | 5 0 | nw. | Glynn Bennion. J. S. Cooper. |
| isky Creekodruff | Millard | 4, 237 4, 850 6, 500 | 1 | €27.4 | | 59 | | | 22 | 42 | | | 0.25 | 2.8 | 4 | | <i>-</i> | | 3 | George Stevens. |

Table 1.—Climatological data for November, 1912. District No. 10, Great Basin—Continued.

| | | | years. | Tem | perature | , in (| legre | es Fah | renh | eit. | Pred | eipitation | , in in | ches. | days, | | Sky. | | direc- | |
|--|---|---|--|--|--|--|--|---|---|--|---|--|-----------------------|--|---|--|---|--|--|--|
| Stations. | Counties. | Elevation, feet. | Length of record, years | Mean. | Departure from the normal. | Highest. | Date. | Lowest. | Date. | Greatest daily range. | Total. | Departure from the normal. | Greatest in 24 hours. | Total snowfall, unmelted. | Number of rainy days, 0.01 inch or more. | Number of clear days. | Number of part- ly cloudy days. | N umber of | Prevailing wind | Observers. |
| Oregon. | | | ļ | | | | | | ! ! | | | | | | | | | | | |
| Burns. Cliff. Paisley. | do | 4, 157 4, 300 4, 500 4, 700 | 21 5 9 | 36. 3 36. 4 | | 60 57 | 12 12† | 14 5 9 | 30 24† 24 | 38 49 | 1.66 0.96 | + 0.7 | 0.85 0.30 | 1.2 | 10 | 10 9 | 13 6 | 7 15 | nw. | J. C. Welcome, jr. John C. Green. E. C. Woodward. G. W. Marvin. |
| Silver Lake | do | 4,700 | 10 | 39.1 | + 2.3 | 66 | 13 | 9 | 4-1 | 48 | 0.88 | - 0.12 | 0. 50 | 0 | 4 | 16 | 11 | 3 | ш. | G. W. Marvin. |
| TahoeTruckee | Placer Nevada | 6,240 5,819 | 2 41 | 37.0 38.8 | + 2.3 | 62 58 | 25 28 | 15 10 | 19 21 | 33 37 | 3. 11 1. 20 | - 1.16 | 1.00 0.60 | 11.0 8.0 | 5 3 | 13 12 | 1 11 | 16 7 | w. se. | R. M. Watson. Southern Pacific Co. |
| Nevada. Austin Battle Mountain Beowawe Carlin Carson Dam Cherry Creek Clover Valley Columbia Dry Farm Eliko Eureka Fallon Fernley Gardnerville Gerlach Geyser Glenbrook Golconda Halleck Hawthorne Jean Lewers Ranch Lida Lovelocks McDermit Millett Millett Mina Oasis Ranch Potts Quinn River Ranch Rebel Creek Reno Soda Lake Tecoma Tonopah Wells | LanderdoEureka ElkoChurchillWhite Pine ElkoElkoElko | 6, 594 4, 843 4, 905 5, 232 6, 450 6, 450 6, 450 6, 5, 750 5, 630 4, 230 4, 532 6, 240 4, 697 7, 5, 631 4, 532 4, 532 4, 534 4, 532 4, 534 4, 532 4, 534 4, 532 4, 534 4, | 23 41 41 5 4 11 5 0 41 9 7 7 39 12 0 8 3 33 19 8 4 0 24 0 18 23 14 5 0 19 10 0 41 5 34 7 7 40 33 33 33 | 42. 3 40. 04 40. 04 40. 55 38. 0 38. 0 38. 0 40. | 0.0 + 3.4 + 0.1 - 0.9 + 1.5 - 0.6 + 1.4 + 4.3 | 61 61 64 62 60 72 71 69 72 75 72 69 65 72 75 72 69 | 24 1† 10 19 9 9 9 10 9 9 9 10 9 9 9 10 10 9 9 9 11 10 10 10 10 10 10 10 10 10 10 10 10 | 200 101 133 5 151 166 155 21 199 100 14 14 12 20 200 200 177 188 23 10 6 6 10 9 9 | 21 21 1 1 29 21 25 22† 25 22† 27 13 24† 29† 27 17 30 21 1 1 23 | 43 37 44 46 50 40 37 47 47 51 47 51 48 49 40 40 40 40 40 40 40 40 40 40 40 40 40 | 0.93 0.00 0.40 1.74 0.42 1.02 0.89 0.87 0.08 0.07 0.08 0.00 0.13 0.03 T. 0.00 0.31 0.03 T. 0.05 0.01 0.10 0.50 0.50 0.50 0.50 0.5 | - 0.08 + 0.22 - 0.34 - 1.61 - 0.00 - 0.52 - 0.19 | | 4.0 0.2 T. 0 3.8 8 0 3.0 T. 13.5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 4 2 2 6 6 0 3 6 2 2 4 4 9 9 3 3 0 0 3 2 2 4 1 1 0 0 2 2 2 4 3 3 1 2 2 5 | 19 20 6 20 13 30 24 16 18 18 18 121 11 27 21 22 17 14 16 11 19 24 12 14 19 24 12 | 1 0 19 5 15 3 4 4 1 0 6 6 6 9 0 5 12 6 7 9 9 13 1 1 2 5 5 2 8 7 6 8 1 6 | 10 10 5 5 7 2 7 2 6 8 6 3 16 2 9 8 8 10 2 0 5 6 6 5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | se se. W. W. se. N. Se. S. In. S. Ine. SW. W. SW. SW. SW. SW. SW. S. W. S. W. S. S. W. D. S. D. | F. O. Booe. Southern Pacific Co. Do. Do. U. S. Reclamation Service. J. H. Leishman. I. F. Wiseman. A. Booth. Walfrid Sohlman. E. J. Clark. Clay Simms. U. S. Experiment Station. Mrs. G. A. Steele. Forest Service. Western Pacific Co. Mrs. J. F. Wambolt. C. C. Henningsen. Southern Pacific Co. Do. G. B. Stannard. Salt Lake Route. U. S. Reclamation Service. Ross Lewers. L. F. Detwiler. A. P. Tilford. Soutt Sterling. R. E. Middagh. Fred J. Jones. Southern Pacific Co. A. S. Patterson. Miss Mamie Potts. F. M. Payne. E. J. Hyatt. U. S. Weather Bureau. U. S. Reclamation Service. Southern Pacific Co. U. S. Weather Bureau. Southern Pacific Co. U. S. Weather Bureau. Southern Pacific Co. U. S. Weather Bureau. |

<sup>a, b, c, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record.
** Temperature extremes are from observed readings of the dry built; means are computed from observed readings.
† Also on other dates.
T. Precipitation is less than 0.01 inch rain or melted snow.</sup>

Table 2.—Daily precipitation for November, 1912. District No. 10, Great Basin.

| ov et | 397-4 | | | | | | | | | | | | | | Da | y of | mon | th. | | | | | | | | | | | | | | |
|---------------------------------------|------------------------------------|------|------|------------|------------|------|------------|------|------|-------|------------|---|------|----|---------|------|---------|-----------|------------|--------|---------|------|---------|-------|----------|----|---------|------|----|------|--------------|-------------------|
| Stations. | Watershed. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | Total. |
| Wyoming. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Border Cokeville | Beardo | | | i9 | .03 | | | | | .09 | Т. | | | | | | | | | | - 16 | | | | | | | | | | .04 | |
| Evanston | | | | | | | | | | | . 21 | | | | | | | | | | | | | | | | | | | | .05 | |
| Idaho. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Geneva Grace | Beardo | | .27 | .71 | | | .11 | | | | | | | | | | | | | | | | | | | : | | | | | . 12 | 1.3 |
| Paris Weston | | | | . 10 | . 17 | | .35 | | | | . 45 | .41 | | | | | | | <u> </u> | | . 15 | | | | ···· | | | | | | . 05 | 1.8 |
| Utah. | | | | | | | | | | | | | | | | | | | | 1 | | | | | | | | | | | | |
| Alpine | G. S. Lake | | | .30 | .11 | | | | | | | | | | | | | | | T. | | | | | | | ļ | | | | . 10 | 0.9 |
| Black Rock | Sevier Lakedo | | | | | .14 | | | | | | 1 | | ļ | | | | | | 1. | ١ | | | | | | | | | | .26 T. | |
| Burrville | G. S. Lake | | .03 | | | .04 | | | | ļ:::: | . 20 | . 15 | | | | .08 | | | | | .05 | | | | | | | | | | .85 | 0.9 |
| Cedar City Center Clarkston | DesertdoG. S. Lake | | | T. | .07 | | T. | 65 | | | | Т. | | | | | | | | | . 02 | | | | | | | | | | . 13 . 50 | |
| Corinne Deseret | do Sevier Lake | | | | | | | | | | 1.15 | | | | | | | | | | . 25 | | | | | | | | | | . 05 | |
| Elberta Erekson | G. S. Lake | | | | .08 | | | | | | т. | | | | | | | | | | . 20 | | | 1 | | | | | | | . 11 | |
| Enterprise Fairfield | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Farmington Fillmore | Sevier Lake | | | | . 02 | . 11 | | | | | . 63 | | | | | | | | | | | | | | | | | | | | . 27 | |
| GarlandGarrison | G. S. Lake Desert | | . 15 | .35 | Т. | .20 | .32 | | | | . 52 T. | . 27 | | ļ | | | | | | . 22 | .10 | i | | | | | | | | . 04 | | 0.3 |
| Government Creek Granger | dodo | . 15 | | | | | т. | | | | т. | | | | | | | | | | | | | | | | | | | | . 26 | 0.8 1.0 |
| Grantsville Grouse Creek | Desert | | | T. | .08 | | | | | | . 27 | | | | | | | | | | | | | | | | | | | | т. | 0.8 |
| Heber Henefer | G. S. Lakedo | | | .09 | .08 | | . 20 | . 15 | | | .09 | . 25 | | | | | | | | | Т. | | | ¦:::: | | | | | | | . 25 | 1.0 |
| Hooper Ibapah (near) | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | . 20 | 0.3 |
| Ibex International | G. S. Lake | | | | | | - 25 | | | | | | | | | | | | | | | | | | | | | | | | | |
| Iosepa Joy | do | | : | т. | | | | | | | | | | | | | | | | | [| | | | | | | | | | . 20 | [|
| Junction Kanosh | do | | | | | .32 | · · · · · | | | | . 46 | 18 | | | | | | | | | | 70 | | | | | | | | | . 27 | 1.83 |
| Kelton Lemay | G. S. Lake Desert | | | | | | T. | | | | | | | | | | | | | | | | | | | | | | | | | 0.5 0.3 1.4 |
| Levan Logan | Sevier Lake G. S. Lake dodo. | | | .52 | | .37 | . 25 | | | | 64 | | | | | .01 | | | | .32 | | | | | | | | | | | .12 | 2.4 |
| Low Lucin Lund | Desertdo | j | | | <i>.</i> . | | | | | | | | | | : | | | ļ | | | | | | | | | | | | | | |
| Manti Maple Creek | Sevier Lake | | | | .05 | . 14 | | | | ····· | | | | | | | | | | | | | | | ļ | .] | | ` | | | .31 | |
| Marion Marysvale | Sevier Lake | | | . 23 | . 18 | | .03 | .09 | 6 | | | 1.28 | | | | . 03 | | | | | .05 | | | | | | | | | | | 1, 2 |
| Meadowville Midlake | G. S. Lakedo | | | T. T. | . 20 | | . 05 | | | | | | | | | Т. | | | | | .20 | | | | | | | | | | Т. Т. | 0.8 T. |
| Midvale Milford | do Sevier Lake | | .10 | | . 13 | | | | | | .31 | | | | | | | | | .29 | | | | | | | | | | . 07 | . 15 | 1.2 |
| Millville Mills | G. S. Lake Sevier Lake | | | | | . 02 | | | | | | . 29 | | | | Т. | | | | | . 22 | | | | <i>-</i> | | | | | | | 0.5 |
| Minersville Modena | Desert | } | | | | | | | | | | | | | | | | | | | | | | | |) | | | | .08 | i | 0.3 |
| Morgan Moroni | G. S. Lake Sevier Lake | | | . 11 | | .04 | | | | | | .46 | | | | | | | :::: | | .03 | | | | | | | | | | .24 | 1.34 0.98 |
| Mosida Mount Nebo | G. S. Lake | | | | | j | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Nephi (near) Newcastle | Desert | | | | | | | | | | .37 | | | | | | | | | | .15 | | | | | | | | | | | 0.5 |
| Oak City Ogden | Sevier Lake G. S. Lake | | | . 25 | | . 14 | | | | . 26 | | . 02 | | | | | •••• | | | .04 | | | | | | 1 | | | | | .20 | |
| Panguitch Park City Park Valley | G. S. Lake Desert | | | .03 | . 05 | | | | | | | | | | | | | | | | | | | | | | | | | | .09 | |
| Parowan | dodo | | | .41 .23 | .11 | | | | | | | | . 10 | | | | | | | .50 | | | - • • · | | | | | | | | .34 | 1, 1 |
| Pelican Point Pine Cliff Ranch | do | | | | | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Pinto Plentiful | Desert | | | | | | | | | | | . 52 | | | | | | | | | . 20 | | | | | | | | |] | .01 | |
| Promontory Provo. | do | | | . 15 | | | | | | | | | i | i | | | | | | | | | | | | | | | | | . 40 | 0.40 |
| Randolph Revier | do | | i | .08 | | | | | | | | | i | | j | | | | | | | | | | | | | | ļ | | | 0.70 |
| Richfield Richmond | Sevier Lake G. S. Lake | | .18 | .94 | .03 | | .36 | | | | | | | | | .06 | | | | .31 | | | | | | | | | | T. | . 27 | T. 2.90 |
| Saltair Salt Lake City | do | | | . 15 | .28 | | .02 | .01 | | | 25 | . 19 | | | | | | | | | .34 | | | | | | | | | | . 13 | 1.12 |
| Scipio Showell | Desertdo | | | .07 | . 15 | . 21 | . 30 | | | | .13 | .35 | | | | .20 | | | | | . 22 | | | | | | | | | | . 25 | 1.28 0.98 |
| Silver City Smyths Spanish Fork | do | | | :::: | | | <i>.</i> ' | | | | | .30 | | ١ | | | .05 | | | | | .02 | | | | | | | | | | 0.3 |
| Strawberry Tunnel | G. S. Lakedo | | | .20 | .33 | | . 10 | | | | .31 | $\begin{bmatrix} .79 \\ 1.13 \end{bmatrix}$ | | | •••• | | | | | .20 | т. | | | | | | | | | | .22 .80 | |
| (west). Thistle | do | | | . 20 | | | T. | | | | T. | 1. 10 | | | | | | | | | Т. | ļ | | | | | | | | | . 30 | 1.80 |
| Tooele Utah Lake Pump. | do | | | .03 | | | т. | | •••• | | | .58 | | | | | • • • • | | | | .51 | | | | | | • • • • | •••• | | | .23 | 1.68 |
| Sta. Vernou Wondover | Desertdo | | | .08 | | | | | | •••• | T. | | | | | | | | | | .06 | | | | | | | | | | .08 T. | 0.87 |
| Whisky Creek | do | .08 | | | | | •••• | . 25 | | •••• | . 14 | - | | | | | •••• | | | | | | | | | | | | | | | T. 0.67 |
| Winder | | | | •••- | •••• | | •••• | | | •••• | | •••• | | | • • • • | | | · · · · · | - - | | | | •••• | | •••• | | | | | | •• | |

Table 2.—Daily precipitation for November, 1912. District No. 10, Great Basin—Continued.

| | | | | | | | | | | | | | | | Da | y of | mon | th. | | | | | | | | | | | | | |
|------------------------|----------------------------|-----|-------------|------------|----------|--------------|--------|---------|--|---------|----------|-----------------|--------------|------------|-----------|--------------|-------------|------------|---------|-------|-----------|-----------|---------|-------------|---------|------------|------------------|-------------|-------|-----------|------------|
| Stations. | Watershed. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| Oregon. | | | | | | | | _ | | - | | _ | | | | | | | | | _ | | | | | | | | - | | |
| al | SE, drainage | . | - <u></u> - | l- <u></u> | | | | | | l | ļ | | l. <u></u> . | | ļ <u></u> | | | | | | | | | | | | ļ | | .J | . | |
| River | | | | т. | | | 12 | | | .05 | | | T. | | . 20 | | | | • • • • | .05 | | | | | | | | - | - | | T. |
| r Valley | do | | .08 | | .03 | 0.5 | . 10 | .60 | | . 46 | | .30 | | .10 | . 12 | · · | • • • • | | | | . 25 | | • • • • | | | | • • • • | · - · · · | | T. | · |
| rns Mill | | | | | .03 | . 80 | .04 | .03 | | | | | | | .09 | 1. | | | | . 21 | | | | | | | | | | т. | |
| istmas Lake | do | 1 | т. | T. | | T. | .23 | T. | T. | Т. | | | | | . 15 | | | | | . 03 | Т. | | | | | • • | | | | | |
| I | do | | | | | . 15 | .21 | | | .09 | | | | | | | | | | | | | | | | | | | | | |
| mond | . do | | 1 | | | | | | | | 1 | | l . | | | | | | | | | | | | | | | | | | |
| body | do | | | | | .50 | .92 | .06 | | .02 | .04 | . 12 | | 0.2 | | | | | | | | | | | ļ | | | | .07 | / | т. |
| t Rock | do | | | | | т. | | | | | | | | | T. | • | - - | | | .06 | | | | | | • | | | | | |
| sley | do | | | | • • • • | | 16 | | | | | - - | | | | | | | | | .07 | | • | | | | | • • • • • | | | |
| ecaer Lake | do | | 1.00 | 50 | • • • • | . 10 | . 10 | | 22 | | | ١. | 1. | | . 10 | | | .07 | | .03 | | | | | | | | | | 1 | |
| ley Falls | do | | | | | 1 03 | 58 | | \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | ·т. | | | | | .08 | | | | | | | | | i 10 | | } | 1 | | | | |
| California. | | | | | | 1.00 | | | - | ļ -· | | | | | | | | .20 | | | | | | | | | | | | | |
| · | m1 | | m | 000 | | m | 70 | | | 10 | 47 | | ļ | | | | | | | £1 | | | | | | | ١. | | | | |
| ou | Truckee | | | .06 | | т. | 20 | | | .Tg | . 47 | | | | | | | | | . 51 | | | | | | | ļ · | | | 1 | |
| dgeport | East Walker | 1 | | | | | . 30 | | | 14 | .40 | | | | | | l | | | . 40 | | | | | | | | | | 1 | |
| hedral Park | Truckee | . | 1 | | | | | | | | J | l | 1 | | | | | | | | | | | | | | | | [| | |
| r Park | do | | 1.40 | .60 | * | * | * | 2.00 | * | * | 1.00 | 1 | l | | ' | | | | | . 75 | | | | | | 1 | | ļ | | | |
| bart Mills | do | | .05 | . 02 | .01 | .02 | 1.30 | .04 | | . 12 | .27 | | | | * | .02 | | | | .39 | . 16 | ! | | | | . . | | | | | |
| 1dy | East Walker | | | T. | | .05 | | | l | | .77 | | | | :: | | | | | | .28 | | · · · · | | | | | | | | |
| Kinney | Truckee | | | * T. | . 20 | | [3.00] | | | | 74 | - - | | | .01 | | | | | | | | | | | | · · | · | ···- | | |
| rkleevilleelds Ranch | East Carson East Walker | | | | .06 | | | | | | | | | | | | | | | т. | | | | | · · · · | | | | | | |
| erds Ranch | East Walker | | T. T. | T. | .00 | | 35 | 1 00 | | | 53 | | | | | | | | | | | - · • • | | | | | | | | 1 | |
| 108 | East Carson Truckee | T. | Ť. | Î. | . 10 | 950 | 1.00 | T. | | . 52 | | 1 | | | T. | | | | | | | | | | | | | | | | |
| | do | T. | T. | | | | . 95 | .50 | | T. | . 60 | | | | | | | | | .20 | . 15 | | | | | | | 1 | | | |
| ckee | do | | | | | | . 40 | | | . 20 | | | | | | | | | | .60 | | | | | | | | ļ | | | |
| odfords | West Carson | Т. | .04 | | | | . 14 | | | . 81 | | | | | | | | | | .64 | . 26 | | | | | | | | | | |
| Nevada. | | | | | | | | | | | | i | | | | | | | | | | | | | | | | | | | |
| hur | Humboldt | | | . 10 | | . 30 | . 70 | | | | .30 | | | | | ļ . . | | ļ | T. | | | | | | | | ļ | | | | . 20 |
| stin | Reese | . | .05 | . 05 | | | | | | | . 20 | | | | | (- <i>-</i> | | | | | | | | | | | } - - | | · | 1 | |
| ttle Mountain | Humboldt | | | | | ; | | | | | . 04 | | | | | | · • • • | | | | т. | | | | | | | | | | .02 T. |
| | do | | | | | | .05 | | | | 12 | 110 | | | | • • • • | | | | . 10 | | | | | | | | | | | т. |
| son Dam | Carson | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| rry Creek | Humboldt | | | | .24 | | | | | | .08 | | | | | | | | | | T. | | | | | | | | 1 | | .08 |
| ver Valley | do | | | .06 | 1.11 | 1. 16 | . 16 | | | | . 17 | | | | | | | | | | | | | | | | | | | | .08 |
| ımbia | Desert | | | | .04 | | | | | | .38 | | ' | | | | | | | | . 18 | | | | | | ļ | | ļ | | . . |
| 7 Farm | Humboldt | | | | . 13 | ;: | . 46 | | | | . 25 | <u>:</u> : | | | | | | | | | | | | | | | | | | | : |
| | do | | T. | .06 | .01 | .01 | | | | | .06 | .02 | | | | | | | | T. | | | | | | •••• | | | | | .01 |
| | do | | | .02 | .50 | ٠٠ | | | | | . 33 | | | | | | • - | | | | | | • • • • | | | • - | | | | | т. |
| nley | Carson | | | | | | | | | | | | | | | | | | • • • • | :::: | | | | | | · · • · | | | | | |
| dnerville | Carson | | | | | | .02 | | | | .04 | | | | | | | | .07 | | | | | | | | 1 | | 1:::: | | |
| lach | Desert | | | | | . 18 | . 25 | | | | | | | | | | | | | | | | | | | | | | | | |
| rser | Humboldt | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| nbrook | Truckee | | | | | | . 75 | | * | 1.05 | | | | | | | | | | | | | | |] | | | | | | |
| conda | Humboldt | | | | • • | * | | | | | | | | | | | | | | | | | | | | | - - | | | | |
| lleckwthorne | Desert | 1 | | | .04 | | | | | | | Т. | | | | | | | | | | • • • • • | | · · • - | | - • • • | | | | | |
| п | do | | | | . 04 | | | | | | .09 | | | | | | | | | | | •- | | | | | | | | | |
| nontan | Carson | | | T. | | т. | Т. | | | | .01 | | | | | | | | | | | | | | | | . . | | | | |
| vers Ranch | Truckee | . | | | | .30 | 2. 10 | | | | | - - | | | | | | | | . 20 | | | | | | | | | | | |
| a | Desert | | | | | | | | | | .35 | | | | | | | | | • • | | | | | | | | | | [] | |
| elocks | Humboldt | | | | | | | | | | | | | | | | | | | ۱۰۰۰۰ | | | | • • • • • • | | | - · • • | | | 1 | |
| Dermit | do | | | | | • - | | · · · · | | | ··· | | | | | | | | | | | | | | | · · • • | - - | | | | |
| Gilltropolis | do | 'm' | .04 | · | .00 | | 50 | | | | .05 T | . 39 | | | • • • • | | | | | .02 | | | | - • • • | | | | | | | .08 |
| l City | do | | | | | .25 | | | | | | | | | | | | li i i i i | | T. | | | | | | | | | 1 | | |
| lett | Reese | | | | . 20 | | | | | | T. | | | | | | | | | T. | | | | | | | | | | | |
| 18 | Desert | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| th Fork | Humboldt | | | т. | | | 1,50 | | | | .20 | | | | | | | | | | | | | | | | | | | * | 1.20 |
| is Ranch | Desert | | | - · • • | اءِ ۽ ٠٠ | | | | ! | | :: | | | | | | | <i>-</i> - | | | | | | | | | | | | - | |
| ts. nn River Ranch. | Reese | | | | . 12 | | | | | | . 10 | | · · • • | | | • • • • | | | | | T. | | | | | | · - • • | | | Т. | |
| oel Creek | Humboldt | | | | | . 15 . 15 | . 55 | | | | .03 | | | | T. | | | | .03 | :::: | | | | | | | | | · | | |
| 10 | Truckee | 1 | | | | . 10 | .01 | | | т. | .03 | | | | 1. | | | | .03 | .08 | | :::· | | | | | | 17.77 | | | |
| lton | Humboldt | | | | .40 | | | | | | * | | | | | | | [] | | * | 20 | | | | | | | | | | |
| ith | West Walker | | | | | | | | | .08 | | | | | | | | | | | | | | | | | | | | | |
| a Lake | Carson | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| oners Ranch | Truckee | | | | . 10 | .30 | . 05 | | | | | | . 20 | | | | | | | | | | | |] | | | | | | |
| etwater | East Walker | | | | | T. | | | | , | T. | · - • - | | | | | | | | | | | | | | | | | | | |
| oma | Humboldt Desert | | | | | * | | | | | . 12 | · - • • | | | | | | | | | | | | | | | | | | | т. |
| opah | Humboldt | | | | | | | 36 | | | . 10 | | | - - | | | - - | | | T. | · - • • j | : | | | | | | | | | |
| lislow Point | Little Hum- | | | | | * | 1. 10 | . 30 | | • | | • • • • | | | | | | | | | | . 07 | | - • • • | | | | | | | |
| 40 17 ± 01116 | boldt. | 1 | | 1 | | - | 1. 10 | • • • • | | | | •••• | | | | | | | | | | | | | | •••• | | | | | |
| ı | | | | | | | | | | | . 01 | | | | | | | | | | | | | | | | | | | | |

^{*} Precipitation included in that of the next measurement.

‡ Separate dates of falls not recorded.

¶ Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less that 0.01 inch rain or melted snow.

Table 3.—Maximum and minimum temperatures for November, 1912. District No. 10, Great Basin.

| | | Wyo | ming. | | 117 | | | | | | | | | | | Ut | ah. | | | | | | | | | |
|------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------|----------------------------|-----------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------|----------------------------|----------------------------------|----------------------------|----------------------------|
| Date. | Bor | der. | Evar | nston. | Ida | ston, aho. | Black | Rock. | Cori | nne. | Gover Cre | nment ek. | Магу | svale. | | dow- lle. | Mod | lena. | Ogo | len. | Parc | wan. | Pro | ovo. | | Lake ity. |
| | Max | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min . | Max. | Min. |
| 1 2 3 4 5 | 44 40 40 36 36 | 13 15 29 27 14 | 42 42 38 34 37 | 8 16 26 24 11 | 48 51 45 41 46 | 18 22 35 32 24 | 60 56 54 48 50 | 20 22 30 30 30 | 45 50 48 45 46 | 25 27 27 25 25 | 44 40 51 46 48 | 16 28 35 32 34 | 69 50 44 43 56 | 15 27 32 24 22 | 30 40 42 40 42 | 4 19 30 28 20 | 44 49 49 42 47 | 19 29 30 29 24 | 50 54 42 48 51 | 25 35 25 30 39 | 45 53 48 43 47 | 22 29 32 28 31 | 46 54 44 42 47 | 20 24 33 30 27 | 50 53 51 44 46 | 30 37 38 33 31 |
| 6 7 8 9 10 | 45 46 55 60 55 | 13 28 31 24 36 | 40 48 55 59 52 | 24 28 27 25 36 | 42 52 59 63 55 | 35 35 39 33 42 | 56 63 67 68 62 | 27 29 28 28 28 36 | 48 55 57 58 60 | 38 36 39 30 30 | 50 56 59 64 59 | 35 36 37 43 42 | 64 63 68 69 55 | 20 25 28 28 28 25 | 44 52 52 63 55 | 19 32 34 34 34 34 | 52 61 64 63 57 | 27 28 31 31 33 | 61 64 67 57 47 | 38 42 50 35 24 | 57 57 62 67 68 | 26 30 34 34 34 39 | 45 63 67 72 58 | 25 30 29 32 40 | 51 63 62 70 61 | 37 45 41 51 41 |
| 11 | | 32 18 17 16 20 | 40 42 52 51 41 | 28 16 19 20 22 | 48 48 55 53 43 | 30 23 23 25 26 | 47 50 56 55 58 | 33 20 20 20 20 22 | 56 50 48 51 55 | 34 25 25 25 25 28 | 52 48 51 51 47 | 31 24 34 29 28 | 44 49 59 55 56 | 30 17 17 23 24 | 42 46 44 50 48 | 30 25 22 23 23 | 47 48 54 55 55 | 30 23 20 23 24 | 47 52 55 53 53 | 24 26 28 29 28 | 60 53 60 59 54 | 20 23 25 20 29 | 55 50 56 58 51 | 35 21 23 23 26 | 46 52 53 52 49 | 35 32 34 37 36 |
| 16 | | 15 13 12 13 25 | 42 49 46 50 44 | 20 18 19 17 23 | 52 49 51 51 47 | 23 21 23 22 32 | 50 58 59 60 51 | 23 20 18 19 29 | 50 48 51 49 50 | 25 23 25 22 24 | 45 51 54 54 50 | 22 26 16 31 30 | 49 55 55 60 42 | 28 15 16 16 29 | 45 44 42 46 37 | 25 20 20 20 20 27 | 51 52 58 54 44 | 29 21 23 24 30 | 55 56 55 57 47 | 25 27 28 33 21 | 59 55 55 61 44 | 26 25 25 25 25 23 | 53 55 55 61 52 | 23 20 20 20 22 32 | 50 52 51 60 44 | 35 35 34 37 31 |
| 21 | 44 | 9 11 9 13 9 | 42 46 50 51 43 | 10 14 15 15 16 | 42 51 45 48 42 | 18 20 18 18 17 | 47 50 56 51 50 | 15 14 13 20 14 | 48 46 45 40 43 | 23 25 22 26 22 | 40 50 49 44 45 | 15 22 25 21 22 | 43 54 56 53 50° | 18 13 12 20 12 | 37 47 42 41 40 | 20 21 22 22 22 21 | 45 54 56 49 51 | 21 16 17 22 17 | 47 51 52 48 48 | 23 26 23 21 19 | 55 60 52 53 53 | 22 35 20 23 23 | 46 50 50 48 49 | 19 19 19 22 18 | 45 50 50 46 47 | 29 30 30 32 30 |
| 26 | 39 37 43 43 32 | 8 3 8 5 12 | 41 46 48 47 39 | 14 20 19 11 17 | 48 41 42 50 40 | 18 15 20 16 23 | 50 52 57 58 46 | 13 13 16 12 32 | 46 45 47 40 44 | 27 25 28 25 27 | 42 48 52 53 48 | 21 18 16 23 28 | 53 51 56 58 45 | 11 12 15 11 27 | 39 35 47 47 36 | 19 12 20 15 20 | 51 52 60 58 51 | 18 17 22 18 26 | 46 49 45 52 39 | 20 23 21 29 16 | 54 60 57 54 54 | 19 22 23 23 18 | 46 48 53 55 40 | 16 16 19 18 25 | 44 47 45 56 48 | 29 26 30 30 32 |
| Mns | 43.3 | 16.6 | 45.2 | 19.3 | 48.3 | 24.9 | 54.8 | 22.2 | 49.1 | 27.0 | 49.7 | 27.4 | 54.1 | 20.4 | 43.8 | 22.7 | 52.4 | 24.1 | 51.6 | 27.8 | 55.4 | 26.2 | 52.3 | 24.2 | 51.3 | 34.3 |

| | | Ore | gon. | | | | | | | | | | | | | Nevac | la. | | | | | | | | | | | |
|----------------------------|----------------------------|----------------------------|------------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| Date. | Bu | rns. | Aus | stin. | Che Cre | erry ek. | El | ko. | Eur | eka. | Fal | lon. | Ha tho | | Jea | ın. | Mill | ett. | Qu Ri Rar | ver | Rei | no. | Tecc | ma. | Tone | pah. | Wir mu | |
| | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. | Max. | Min. |
| 1 2 3 4 5 | 50 43 38 46 42 | 27 21 19 25 30 | 41 - 40 - 38 - 39 - 41 | 20 22 23 24 29 | 40 47 47 40 44 | 15 32 33 31 23 | 48 47 50 46 46 | 13 30 33 31 15 | 44 42 48 42 48 | 20 29 27 23 18 | 57 57 58 54 54 | 24 39 29 33 23 | 58 56 63 54 58 | 32 41 30 38 26 | 75 69 68 72 70 | 36 34 40 40 38 | 54 47 54 48 51 | 11 37 27 32 16 | 47 53 54 49 40 | 15 28 34 14 27 | 56 48 52 51 54 | 29 34 32 33 32 | 62 65 68 66 69 | 12 20 22 21 20 | 46 44 50 48 50 | 32 34 34 35 35 | 54 52 51 49 45 | 28 34 35 29 28 |
| 6 7 8 9 10 | 54 46 55 59 48 | 29 35 39 32 21 | 48 50 55 58 46 | 28 29 36 34 30 | 51 56 60 61 54 | 38 35 31 40 31 | 50 54 61 62 60 | 36 45 32 42 34 | 57 57 59 60 55 | 34 30 35 40 28 | 63 64 70 72 62 | 38 35 36 45 40 | 61 66 70 72 60 | 34 34 37 38 37 | 71 69 65 63 68 | 37 32 32 34 34 37 | 63 55 65 67 58 | 37 26 25 35 31 | 52 52 63 66 52 | 36 36 38 28 35 | 55 61 65 63 44 | 47 40 40 40 35 | 62 62 67 67 65 | 20 22 21 18 22 | 52 53 58 62 51 | 35 40 42 43 29 | 52 56 66 66 46 | 37 37 37 39 28 |
| 11 12 13 14 | 46 60 50 50 44 | 26 28 33 26 23 | 47 46 49 40 42 | 30 32 33 34 30 | 37 44 51 53 50 | 19 18 21 32 27 | 43 50 53 55 52 | 24 20 19 26 22 | 42 49 52 53 57 | 20 18 23 32 25 | 54 56 54 62 57 | 23 20 21 26 24 | 54 60 60 60 60 | 30 27 30 29 27 | 70 71 71 68 69 | 36 35 35 38 29 | 47 53 50 58 58 | 23 12 10 20 14 | 49 57 51 56 57 | 20 23 24 28 19 | 55 60 55 59 59 | 25 24 26 34 26 | 67 66 65 65 67 | 11 9 8 11 11 | 41 50 53 50 50 | 28 34 35 39 36 | 49 55 53 56 55 | 23 26 26 31 28 |
| 16 17 18 19 20 | 46 48 55 46 44 | 26 28 29 19 12 | 43 41 49 50 54 | 28 29 23 20 30 | 46 53 52 53 44 | 25 21 26 30 29 | 51 56 58 58 49 | 18 18 22 21 28 | 51 52 53 52 44 | 20 27 30 32 20 | 55 60 63 64 48 | 19 18 20 24 25 | 63 60 67 62 57 | 31 30 30 31 31 | 70 62 62 68 70 | 28 20 35 32 30 | 51 58 59 56 46 | 17 9 15 19 38 | 54 53 58 56 49 | 17 16 22 17 28 | 58 59 64 53 48 | 26 27 29 33 26 | 65 66 64 63 64 | 10 10 8 9 15 | 49 52 54 51 41 | 35 38 40 35 29 | 54 58 62 59 46 | 29 23 25 20 21 |
| 21 22 23 24 25 | 47 49 53 53 52 | 24 19 15 18 20 | 57 59 62 64 60 | 31 32 38 37 39 | 46 55 51 49 50 | 16 22 21 21 23 | 48 52 45 50 51 | 12 16 14 13 12 | 50 59 58 52 55 | 14 23 25 23 22 | 50 56 53 51 52 | 13 15 15 15 14 | 55 56 57 56 53 | 22 23 25 26 23 | 64 64 63 60 62 | 28 26 25 23 24 | 50 54 56 58 53 | 8 7 6 10 9 | 47 52 48 52 52 | 10 13 12 9 10 | 54 57 58 57 56 | 21 21 21 20 20 | 63 63 60 60 65 | 5 4 3 4 5 | 48 54 54 48 50 | 23 40 39 31 36 | 48 55 52 53 54 | 17 19 21 15 16 |
| 26 27 28 29 30 | 52 53 52 42 42 | 18 18 16 24 14 | 58 59 62 60 59 | 40 40 38 39 39 | 48 55 56 55 47 | 21 18 33 21 29 | 54 51 52 53 41 | 11 11 17 10 26 | 53 56 55 56 46 | 23 24 27 25 25 | 52 52 52 59 53 | 16 15 17 15 30 | 52 54 53 55 62 | 24 20 27 34 25 | 64 67 66 67 70 | 28 28 28 28 28 | 58 52 58 51 40 | 7 11 7 20 10 | 56 52 58 53 48 | 10 12 18 10 26 | 58 57 62 61 46 | 21 22 23 26 21 | 64 65 63 64 65 | 5 10 5 10 11 | 49 54 52 52 38 | 36 38 40 35 26 | 54 58 57 58 43 | 16 18 20 17 16 |
| Mns | 48.8 | 23.8 | 50. 6 | 31. 2 | 49.8 | 26. 1 | 51.5 | 22. 4 | 51.9 | 25. 4 | 57.1 | 24. 2 | 59.1 | 29.8 | 67.3 | 31.3 | 53. 9 | 18. 3 | 52.9 | 21. 2 | 56. 2 | 28. 5 | 64.6 | 12. 1 | 50.0 | 35. 0 | 53.9 | 25.3 |

•, •, •, etc., indicate, respectively, 1, 2, 3, etc., days missing from the record. §§ Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs. 72181—13——8